

CLAIMS

We claim:

1 1. A drive unit comprising
2 a housing,
3 a drive shaft mounted for rotation in said housing,
4 a stator fixed with respect to said housing, said stator having a surface forming the
5 boundary of an air gap,

6 a rotor coaxial to said stator and in torque-transmitting connection with the drive
7 shaft, said drive shaft causing said rotor to exhibit a wobbling motion which describes a
8 geometric slewing curve, said rotor having a surface forming a boundary of said air gap opposite
9 from said surface of said stator, at least one of said surfaces approximating said geometric
10 slewing curve in a cross section parallel to the drive shaft.

2 2. A drive unit as in claim 1 wherein said surfaces of said rotor and said
3 stator are essentially parallel to each other in said cross-section parallel to said drive shaft.

1 3. A drive unit as in claim 1 wherein said geometric slewing curve is a
2 second-order curve.

1 4. A drive unit as in claim 1 wherein, in a cross-section parallel to said drive
2 shaft, said surfaces comprise straight lines which are slewed with respect to said drive shaft.

1 5. A drive unit as in claim 1 wherein said stator comprises a stack of plates
2 of mutually different shapes.